



## Precision Engagement Capabilities for the Future

July 27-28, 2005

### Precision Strike PEO Forum 2005 Agenda

Keynote Address: **Major General Robert W. Chedister**, USAF, Air Force Program Executive Officer for Weapons, and Commander Air Armament Center, Air Force Materiel Command, Eglin AFB, FL

#### PRECISION ENGAGEMENT - U.S. AIR FORCE PERSPECTIVE:

- Acquisition at the Air Armament Center, **Mr. Thomas Robillard**, Director Air-to-Missile Systems Wing, Eglin AFB, FL

#### PRECISION ENGAGEMENT - U.S. ARMY FORCE PERSPECTIVE:

- PEO Ammunition, **Mr. James Sutton**, Deputy Executive Officer, Ammunition
- Excalibur XM982 , **Mr. Chris Grassano**, Deputy Product Manager, XM982 Excalibur
- Viper Strike Overview, **LTC John Oxford, USA**, Product Manager, Viper Strike
- Precision Mortar Systems Overview, **Mr. Greg Bischer**, Test & Evaluation Lead, Precision Guided Mortar Munition (PGMM)

#### JOINT FIRES: PROGRAM MANAGER PERSPECTIVE:

- Joint Fires Integration and Interoperability Team (JFIIT) - Executive Overview, **Colonel David Brown, USAF**, Integration & Interoperability Team, HQ USJFCOM

#### PRECISION ENGAGEMENT - U.S. NAVY FORCE PERSPECTIVE:

- Precision Strike Capabilities for the Future Battlefields, **Rear Admiral Timothy Heely, USN**, PEO for Strike Weapons & Unmanned Aviation

#### PRECISION ENGAGEMENT - U.S. MARINE CORPS PERSPECTIVE:

- USMC Precision Strike **Brigadier General Martin Post**, USMC, Assistant Deputy Commandant for Aviation

#### PRECISION ENGAGEMENT:

- Precision Engagement, **Mr. Randy Bigum**, Deputy Executive Officer, Ammunition

#### PRECISE EFFECTS VICE PRECISE MUNITIONS:

- Precision Effects v. Precision Munitions, **Brigadier General Philip D. Coker, USA**, Director, Capabilities Developments, Futures Center, United States Army Training and Doctrine Command

#### WEAPONS DATALINK NETWORK (ACTD):

- Air Armament Capability for the Future, **Ms. Lynda Rutledge**, Program Manager, NCW-Network Weapons ACTD

#### JOINT BATTLESPACE MANAGEMENT COMMAND AND CONTROL (AFED):

- The Challenge of Achieving Joint Command and Control in a Network Centric Environment, **Mr. Frank Caravella**, Program Manager, Raytheon Network Centric Systems
- Imagine....and act, **Mr. Greg Gardner**, Vice President, Oracle, Homeland Security

**PRECISION STRIKE PEO FORUM**  
**JULY 27-28, 2005**  
**EMERALD COAST CONFERENCE CENTER**  
**FT. WALTON BEACH, FL**

**KEYNOTE ADDRESS:**

**Major General Robert W. Chedister, USAF**

Air Force Program Executive Officer for Weapons, and Commander Air Armament Center, Air Force Materiel Command, Eglin AFB, FL

**PRECISION ENGAGEMENT—U.S. AIR FORCE PERSPECTIVE:**

**Thomas Robillard**

Director, Air-to-Air Missile Systems Wing, Eglin AFB, FL

**PRECISION ENGAGEMENT TO ENSURE DOMINANT MANEUVERS—U.S. ARMY PERSPECTIVE PANEL:**

- ☐ **James Sutton**  
Deputy Program Executive Officer, Ammunition
- ☐ **Chris Grassano**  
Deputy Product Manager, XM982 Excalibur
- ☐ **LTC John Oxford, USA**  
Product Manager, Viper Strike
- ☐ **Greg Bischer**  
Test & Evaluation Lead, PGMM

**JOINT FIRES: PROGRAM MANAGER PERSPECTIVE:**

**Colonel David Brown, USAF**

Integration & Interoperability Team, HQ USJFCOM

**PRECISION ENGAGEMENT—U.S. NAVY PERSPECTIVE:**

**Rear Admiral Timothy Heely, USN**

PEO for Strike Weapons & Unmanned Aviation

**PRECISION ENGAGEMENT—U.S. MARINE CORPS PERSPECTIVE:**

**Brigadier General Martin Post, USMC**

Assistant Deputy Commandant for Aviation

**PRECISION ENGAGEMENT:**

**Randy Bigum**

Vice President, Strike Weapons Lockheed Martin Missiles and Fire Control

**PRECISE EFFECTS VICE PRECISE MUNITIONS:** What the Army sees as its critical capability gaps for precision, and view on interdependence.

**Brigadier General Philip D. Coker, USA**

Director, Capabilities Developments, Futures Center, United States Army Training and Doctrine Command

**WEAPONS DATALINK NETWORK (ACTD):**

**Lynda Rutledge**—Program Manager, NCW-Network Weapons ACTD

**JOINT BATTLESPACE MANAGEMENT COMMAND AND CONTROL (AFEI):**

Senior military leaders discuss successful use of information sharing in the operational context, and provide a look at future operations requirements for net-centric capabilities that support the military end-user.

- ☐ **Frank Caravella, PM**—Raytheon Network Centric Systems
- ☐ **Greg Gardner, Vice President**—Oracle, Homeland Security





# USMC Precision Strike

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BGen "Wiley" Post  
Assistant Deputy Commandant for Aviation



# Generating Precision Effects

- Accuracy, speed, lethality

- The right weapon
- In the exact place
- At the right time



- Generating and maintaining information pedigree

- The ability for a Marine to generate highly accurate targeting data at the tactical level
- Insert that information into a network that maintains pedigree
- Machine to Machine data transfer



# Tactical Targeting Systems

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- Implications of the digital trend
  - Increased situational awareness at tactical level
  - Precision targeting at the tactical level
  - Rapid request and employment of precision fires
- Reduced lulls in C2 tempo inherent of legacy analog/voice systems by increasing accuracy, speed and situational awareness
- MAGTF objectives more rapidly achieved
  - GCE enabled by rapid and precise combined arms effects





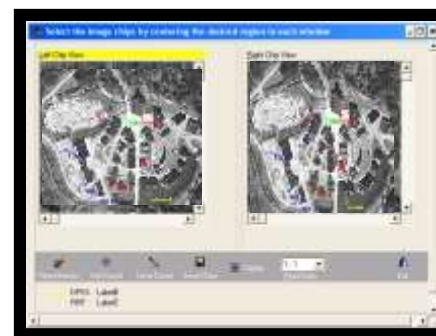


# USMC

## Target Location & Designation Handoff System (TLDHS)



LOCATE



MENSURATE



COORDINATE



A ruggedized handheld computer, imbedded GPS, laser range finder, and radio with the ability to process lased target as a fire mission for ground, air, and naval surface fires simultaneously or separately and then passes that fire mission digitally to the firing agencies and aircraft.



CONTROL



# Litening Pod Downlink & ROVER

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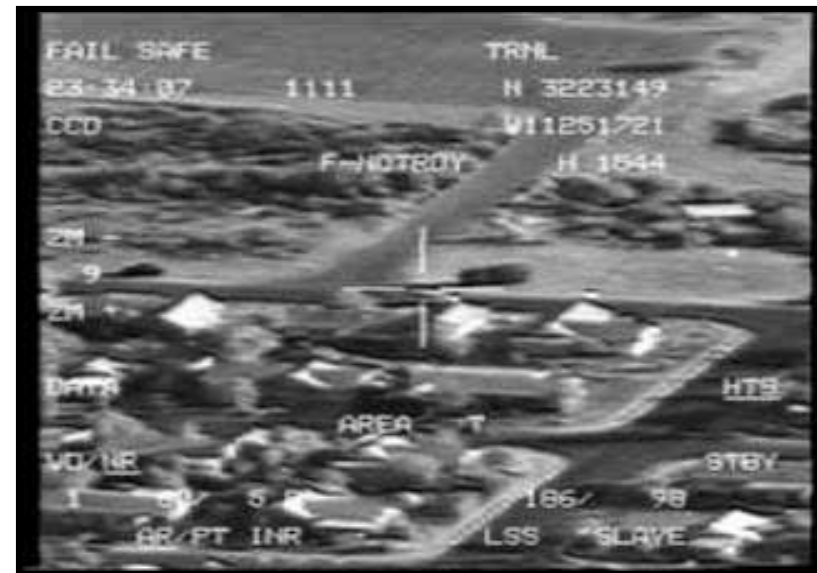
- Sensor downlink from AV-8B/F-18A+/C/D
  - Developed by PMA-257/MAWTS-1 for offensive air support missions (CAS, ground aided strike)
  - Supplies GCE video feed of aircraft targeting sensor or UAV





# Litening Pod Video Downlink Capability

- Ten USMC downlink Litening Pods in OIF
  - 5 Pioneer/9 Predator Pods
- 43 Rover stations in theater
  - Other organic receive stations (MRS, RRS, GCS)
  - Access to UAV feeds
- New ways to employ
  - Convoy Escort/ISR (1000+) combat missions
- Benefits
  - Rapid & positive target ID
  - Increased GCE SA and offensive capability



Actual ground display



## Joint Effects Targeting System (JETS)





Questions?



# Backup Slides

